

M A T E R I A L S A F E T Y D A T A S H E E T

QUICK REFERENCE:

B - 6 6 5



H - O - H Water Technology, Inc.
500 South Vermont Street
Palatine, Illinois 60067

EMERGENCY PHONE No's

847 - 358 - 7400 (H - O - H BUSINESS Hrs.)
 800 - 424 - 9300 (CHEMTREC - 24 Hrs.)

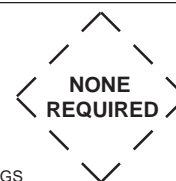
H M I S:

4 = EXTREME
 3 = SEVERE
 2 = MODERATE
 1 = SLIGHT
 0 = INSIGNIFICANT

HEALTH	0
FLAMMABILITY	0
REACTIVITY	1

DOT:

HAZARD LABELING



IN FIBER KEGS

PRODUCT IDENTIFICATION	PRODUCT NAME	CHEMICAL FAMILY	DATE	Rev. No.	SUPERSEDES	E P A - T P Q	BY
	B - 6 6 5	BOILER WATER TREATMENT	7 - 5 - 08	13	7 - 10 - 06	NA	

HAZARDOUS COMPONENTS	CHEMICAL NAME	COMMON NAME	C A S No.	PERCENT	OSHA PEL	ACGIH - TLV	OTHER

COMMENT	<p>1. THIS PRODUCT CONTAINS SODIUM SULFITE (APPROXIMATELY 98.8% as Na₂SO₃). WHILE NOT CONSIDERED HAZARDOUS, CARE SHOULD BE EXERCISED IN HANDLING THIS PRODUCT TO AVOID CONTACT WITH SKIN, EYES, OR CLOTHING.</p> <p>2. DO NOT ALLOW THIS PRODUCT TO COME IN CONTACT WITH ACIDS. THE REACTION OF SODIUM SULFITE WITH ACID PRODUCES HAZARDOUS SULFUR DIOXIDE GAS (SO₂).</p> <p>3. THIS PRODUCT IS APPROVED FOR USE IN FOOD PROCESSING PLANTS SUBJECT TO THE UNITED STATES DEPARTMENT OF AGRICULTURE MEAT AND POULTRY INSPECTION PROGRAM WHERE STEAM CONTACTS EDIBLE PRODUCTS.</p>
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PHYSICAL DATA	BOILING POINT (Degrees Fahrenheit)	NA	SOLUBILITY (in water)	COMPLETE	EVAPORATION RATE (water = 1.0)	NA
	VAPOR PRESSURE (in millimeters of Mercury)	NA	SPECIFIC GRAVITY (water = 1.0)	NA	pH	9.4
	VAPOR DENSITY (air = 1.0)	NA	PERCENT (%) VOLATILE (by volume)	NA		
	APPEARANCE and ODOR	GREY - BROWN POWDER				

FIRE AND EXPLOSION	FLASH POINT (Degrees Fahrenheit)	METHOD	FLAMMABLE LIMITS	LOWER EXPLOSIVE LIMIT	UPPER EXPLOSIVE LIMIT
	NONE	NA		NOT APPLICABLE	NOT APPLICABLE
	EXTINGUISHING MEDIA	SPECIAL FIRE FIGHTING PROCEDURES			UNUSUAL FIRE AND EXPLOSION HAZARDS
	WATER	NONE			<p>NONE</p> <p>IF SPILLAGE OCCURS DURING A FIRE HEATING OR EXPOSURE TO OTHER CHEMICALS COULD RESULT IN THE FORMATION OF SULFUR DIOXIDE GAS.</p>

REACTIVITY DATA	STABILITY	CONDITIONS TO AVOID	NOT APPLICABLE
	STABLE <input checked="" type="checkbox"/> UNSTABLE <input type="checkbox"/>		
	INCOMPATIBILITY (Materials to Avoid)	STRONG MINERAL ACIDS, OXIDIZERS.	
	HAZARDOUS DECOMPOSITION PRODUCTS	SULFUR DIOXIDE	
	HAZARDOUS POLYMERIZATION MAY WILL OCCUR <input type="checkbox"/> WON'T OCCUR <input checked="" type="checkbox"/>	CONDITIONS TO AVOID	NOT APPLICABLE

SPECIAL PRECAUTIONS	STORAGE AND HANDLING	OTHER
	<p>1. PROTECT CONTAINERS AGAINST PHYSICAL DAMAGE.</p> <p>2. STORE IN A COOL, DARK, WELL-VENTILATED LOCATION AWAY FROM DIRECT SUNLIGHT AND OTHER SOURCES OF RADIANT HEAT.</p> <p>3. KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE. NEVER MOVE AN OPEN OR LOOSELY CLOSED CHEMICAL CONTAINER.</p> <p>4. WEAR HAND AND FOOT PROTECTION WHEN MOVING HEAVY CONTAINERS.</p>	<p>1. NOT TO BE TAKEN INTERNALLY.</p> <p>2. NOT TO BE USED FOR OTHER THAN SPECIFIED PURPOSE.</p> <p>3. KEEP AWAY FROM CHILDREN.</p> <p>4. NEVER MIX THIS MATERIAL WITH ANY OTHER CHEMICAL UNLESS AT THE SPECIFIC DIRECTION OF H - O - H PERSONNEL.</p> <p>5. TRIPLE RINSE EMPTY CONTAINERS BEFORE OFFERING FOR DISPOSAL OR SALVAGE. NEVER REUSE EMPTY CONTAINERS.</p>

HEALTH HAZARD DATA	THRESHOLD LIMIT VALUE	NOT APPLICABLE	B-665
ACUTE HEALTH HAZARDS		CHRONIC HEALTH HAZARDS	
MILD IRRITANT		NONE KNOWN	

EFFECTS OF EXPOSURE	SKIN AND EYES / TARGET ORGAN	INHALATION	INGESTION
	TISSUE IRRITATION MAY CAUSE EYE IRRITATION WITH REDNESS. PROLONGED DERMAL CONTACT MAY PRODUCE ITCHING, DRY SKIN, OR POSSIBLE MILD IRRITATION	NON - VOLATILE IF A LARGE AMOUNT OF DUST IS DRAWN INTO THE BREATHING TRACT, IRRITATION OF BRONCHIAL TISSUE AND LUNGS MAY OCCUR. PROLONGED EXPOSURE COULD PRODUCE NASAL OR MUCOUS TISSUE SORES.	IRRITANT MAY CAUSE IRRITATION OF THE DIGESTIVE TRACT.
CONDITIONS AGGRAVATED	DERMATITIS, BLISTERS, BURNS, OR ANY PRE-EXISTING SKIN IRRITATION IF CONTACT OCCURS.	ASTHMA, BRONCHITIS, EMPHYSEMA, OR OTHER CHRONIC RESPIRATORY DISEASES DUE TO DUST.	IF INGESTION OCCURS, STOMACH ULCERS OR OTHER PRE-EXISTING DIGESTIVE CONDITIONS.

EMERGENCY PROCEDURES	SKIN AND EYES	INHALATION	INGESTION
	EYES FLUSH EYES WITH WATER FOR 15 MINUTES. GET PROMPT MEDICAL ATTENTION IF IRRITATION DEVELOPS. SKIN FLUSH WITH WATER AND WASH WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND WASH WELL BEFORE REUSE. IF IRRITATION DEVELOPS, SEEK MEDICAL ADVICE.	NON - VOLATILE IF SUFFICIENT DUST IS INHALED TO PRODUCE SYMPTOMS, REMOVE SUBJECT TO FRESH AIR. HAVE THE SUBJECT COUGH AND ATTEMPT TO CLEAR ANY MATERIAL FROM THE BREATHING TRACT. IF BREATHING BECOMES DIFFICULT, GET PROMPT MEDICAL ATTENTION.	INDUCE VOMITING IF CONSCIOUS, DILUTE INGESTED MATERIAL WITH 2 OR MORE GLASSES OF WATER OR MILK BEFORE ANY ATTEMPT TO INDUCE VOMITING. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS SUBJECT. OBTAIN PROMPT MEDICAL ATTENTION.

CARCINOGEN LISTING	NATIONAL TOXICOLOGY PROGRAM (NTP)	I A R C MONOGRAPHS	O S H A REGULATED
	NO	NO	NO

SPILL OR LEAK PROCEDURES	SPIILLS AND RELEASES	WASTE DISPOSAL METHODS
	CONTAIN SPILLED MATERIAL AND COLLECT INTO SUITABLE CONTAINER FOR DISPOSAL. SODIUM SULFITE MAY BE OXIDIZED BY MILD SOLUTIONS OF SODIUM HYPOCHLORITE (BLEACH) OR PEROXIDE. IN MOST CASES THE SULFITE MAY BE OXIDIZED BY EXPOSURE TO ATMOSPHERIC OXYGEN IF THE CONTAINER OF COLLECTED SPILLED MATERIAL IS PERIODICALLY STIRRED.	CONSULT FEDERAL, STATE, AND LOCAL REGULATIONS PERTAINING TO WASTE DISPOSAL.

CONTROL MEASURES	EYE PROTECTION	SAFETY GLASSES WITH SIDE SHIELDS OR A FACE MASK.		
	RESPIRATORY PROTECTION	NOT REQUIRED FOR ORDINARY USE. DURING EMERGENCY CONDITIONS OR IF A SERIOUS SPILL OCCURS, AN AIR PURIFYING RESPIRATOR DESIGNED TO ABSORB FINE DUST AND SMOKE SHOULD BE USED.		
	OTHER PROTECTIVE EQUIPMENT	NOT REQUIRED FOR NORMAL USE.		
	LOCAL EXHAUST	YES	SPECIAL VENTILATION	NOT REQUIRED FOR NORMAL USE.
	MECHANICAL VENTILATION	NOT REQUIRED FOR NORMAL USE.	OTHER VENTILATION	NOT REQUIRED FOR NORMAL USE.
	PROTECTIVE GLOVES	NON - SLIP VINYL OR RUBBER GLOVES.	PROTECTIVE CLOTHING	WATER REPELLENT APRON OR COVERALLS

REFERENCES	1. <i>Threshold Limit Values For Chemical Substances And Physical Agents In The Work Environment</i> ; A C G I H, 1989. 2. <i>O S H A Safety and Health Standards</i> : 29CFR 1900 to 1910, July 1, 1988 3. <i>Fifth Annual Report on Carcinogens</i> ; U. S. Dept. of Health and Human Services, National Toxicology Program, 1989 (Summary). 4. M. Sittig, <i>Handbook of Toxic & Hazardous Chemicals</i> , (Noyes Publications, Park Ridge, N. J., 1981). 5. <i>Community Right - To - Know Manual</i> , (Thompson Publishing Group, Washington, D. C., 1990). 6. <i>Right - To - Know / Chemical Manual</i> (ILLINOIS MANUFACTURES ASSOCIATION; Rooks, Pitts, and Poust, 1990). 7. <i>Toxic and Hazardous Industrial Chemicals Safety Manual</i> (THE INTERNATIONAL TECHNICAL INFORMATION INSTITUTE, 1975). 8. M. J. Lefevre, S. A. Conibear, <i>First Aid Manual for Chemical Accidents</i> , 2nd ed. (Van Nostrand Reinhold, New York, 1989). 9. <i>Hazardous Materials Guide; Shipping, Materials Handling and Transportation</i> (J. J. KELLER & ASSOCIATES, Inc., Neenah, Wisconsin, Dec. 1990) 10. <i>Hazard Communication Guide; Federal & State Right to Know Standards</i> (J. J. KELLER & ASSOCIATES, Inc., Neenah, Wisconsin, Dec. 1990)
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REPORTABLE QUANTITY	IF MORE THAN THE INDICATED QUANTITY IS DISCHARGED TO DRAINAGE (Sewer / surface water), AIR, OR SOIL, IMMEDIATELY REPORT AS INDICATED.		
	CERCLA OR EPA (Extremely Hazardous) NATIONAL RESPONSE CENTER (800 - 424 - 8802)	STATE EMERGENCY RELEASE NOTIFICATION ILLINOIS (Only) 800 - 782 - 7860 (Consult for others)	LOCAL EMERGENCY RESPONSE AUTHORITY Record Telephone No. of Local Response Authority
WRITTEN REPORT MUST FOLLOW	NA	NA	NA